

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/012169

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C10M141/08 C10M141/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C10M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/022963 A (LUBRIZOL CORP) 20 March 2003 (2003-03-20) page 4, line 17 - page 6, line 23 page 9, line 15 - page 33, line 2 page 39, line 22 - line 28 example 2	1-16
X	EP 1 266 952 A (INFINEUM INT LTD) 18 December 2002 (2002-12-18) page 3, line 55 - page 5, line 28 page 5, line 43 - page 6, line 35 claims; examples	5-16
P, X	US 2003/166477 A1 (ABRAHAM WILLIAM D ET AL) 4 September 2003 (2003-09-04) paragraph '0004! - paragraph '0036! paragraph '0098! - paragraph '0105! claims; examples	1-16
----- -/--		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *8* document member of the same patent family

Date of the actual completion of the international search

13 August 2004

Date of mailing of the international search report

25/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Dötterl, E

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/012169

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/147116 A1 (LAMB GORDON D ET AL) 10 October 2002 (2002-10-10) the whole document -----	1-16
A	US 4 582 618 A (DAVIS KIRK E) 15 April 1986 (1986-04-15) cited in the application the whole document -----	1-16
P,A	WO 03/104620 A (ABRAHAM WILLIAM D ; KELLEY JACK C (US); LUBRIZOL CORP (US); WILK MELOD) 18 December 2003 (2003-12-18) the whole document -----	1-16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/012169

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03022963	A	20-03-2003	US 6583092 B1 CA 2458043 A1 EP 1427800 A1 WO 03022963 A1	24-06-2003 20-03-2003 16-06-2004 20-03-2003
EP 1266952	A	18-12-2002	EP 1266952 A1 CA 2390748 A1 EP 1266953 A1 US 2003004070 A1	18-12-2002 15-12-2002 18-12-2002 02-01-2003
US 2003166477	A1	04-09-2003	WO 03070863 A2	28-08-2003
US 2002147116	A1	10-10-2002	CA 2434334 A1 EP 1360265 A2 JP 2004521176 T WO 02062930 A2	15-08-2002 12-11-2003 15-07-2004 15-08-2002
US 4582618	A	15-04-1986	AT 45377 T AU 584661 B2 AU 5207286 A BR 8507144 A CA 1265505 A1 DE 3572192 D1 DK 385186 A ,B, EP 0204829 A1 ES 8705509 A1 FI 863285 A IN 166484 A1 JP 2558264 B2 JP 62501014 T MX 168570 B NO 863247 A ,B, WO 8603772 A1 ZA 8509562 A	15-08-1989 01-06-1989 22-07-1986 31-03-1987 06-02-1990 14-09-1989 13-08-1986 17-12-1986 16-07-1987 13-08-1986 19-05-1990 27-11-1996 23-04-1987 01-06-1993 12-08-1986 03-07-1986 27-08-1986
WO 03104620	A	18-12-2003	WO 03104620 A2	18-12-2003